

ABSTRACT

An oily solution of water-insoluble aliphatic alcohol is allowed to react with an aqueous hydrogen peroxide solution in the presence of a catalyst containing a metal compound belonging to Group 8 to 10 of the Periodic Table in a heterogeneous solution system. As a result, a carbonyl compound can be produced from an aqueous hydrogen peroxide solution under mild conditions in high yield. Also, the reaction operation is simple and easy, a step for removing solvent after completion of the reaction is not necessary and influence and toxicity upon the environment and human body are markedly small. Thus, a carbonyl compound can be produced safely, simply and efficiently.